Atty. Dkt. No.APPM/6551/CMI/TIC/LE



As a below named inventor, I hereby declare that:

	- • •
[X]	original
[]	divisional
ΪĨ	continuation
ίi	continuation-in-part

This declaration is of the following type:

# INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DUAL-GAS DELIVERY SYSTEM FOR CHEMICAL VAPOR DEPOSITION PROCESSES

#### SPECIFICATION IDENTIFICATION

The specification of which:

[	]	is attached hereto
()	X]	was filed on December 27, 2001, under Serial No. 10/033,544, executed on even date
		herewith; or
[	i	Express Mail No.( )
		and was amended on (if applicable)
[		was described and claimed in PCT International Application No
filed on $\_$		and as amended under PCT Article 19 on

# ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

	[x]	No such	applications have bee	n filed.		
	[]	Such ap	plications have been fil	ed as follows:		
A.			CT application(s) filed any priority claims u			or design) prior to this
	Coun	try/PCT	Application No	Date Fi	iled	Priority Claimed
						[ ] Yes [ ] No [ ] Yes [ ] No [ ] Yes [ ] No
В.		ign appl	ication(s), if any, filed ı	more than 12 n	nos. (6 mos for	design) prior to this
	Country Applica Filing d	tion No:				
C.	U.S. Pr	ovisiona	l Application filed with	hin 12 months p	prior to this app	plication
	Serial I	<u> 10.</u>		Filing Date		
			PRIORITY (	CLAIM (35 U.S.C	. §120)	
I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filling date of the prior application(s) and the national or PCT international filling date of this application.						
	[x]		applications have bee			
	1 ]	Such ap	plications have been in	eu, as ioliows.		
	Serial N Abando		Filing Date	Patented	Status <u>Pendi</u>	

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217 Michael B. Einschlag Registration No. 29,301 Peter J. Sgarbossa Registration No. 25,610 Lawrence Edelman Registration No. 25,226 Michael L. Sherrard Registration No. 28,041 Raymond Kam-On Kwong Registration No. 37,165 James C. Wilson Registration No. 35,412 Robert W. Mulcahy Registration No. 25,436 Walter Benjamin Glen Registration No. 44,713 B. Todd Patterson Registration No. 37,906 Registration No. 34,682 Raymond R. Moser, Jr. Keith M. Tackett Registration No. 32,008 Douglas H. Elliott Registration No. 32,982 William B. Patterson Registration No. 34,102

Send correspondence to:

Direct telephone calls to:

Patent Counsel Applied Materials, Inc. P.O. Box 450-A Santa Clara, CA 95052 B. Todd Patterson THOMASON, MOSER & PATTERSON, L.L.P.

713-623-4844

# **DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:

Full name of sole or first inventor:

Mark M. Hytros

Inventor's

signature:\_\_ Residence:

Post Office Address:

592 Mill Creek Lane, #301 Santa Clara, CA 95054

U.S.A.

Country of Citizenship: U.S.A.

Full name of second in	nventor: Truc T. Tran	
Inventor's signature:		Date:
Residence:	Fremont, California	
Post Office Address:	45354 Rutherford Terra Fremont, CA 94539 U.S.A.	ce Country of Citizenship: U.S.A.
Full name of third inve	ntor: Salvador P. Um	notoy
Inventor's signature:		Date:
Residence:	Antioch, California	
Post Office Address:	2801 Wildflower Drive Antioch, CA 94509 U.S.A.	Country of Citizenship: U.S.A.
Full name of <b>fourth</b> inv	ventor: Lawrence Chur	ng-Lai Lei
Inventor's signature:		Date:
Residence:	Milpitas, California	
Post Office Address:	1594 Country Club Driv Milpitas, CA 95035 U.S.A.	
Full name of <b>fifth</b> inver	ntor: Avgerinos Gela	itos
Inventor's signature:		Date:
Residence:	Redwood City, Californi	
Post Office Address:	2651 Eaton Avenue Redwood City, CA 940 U.S.A.	062 Country of Citizenship: U.S.A.
Full name of sixth inve	entor: Tong Zhang	
Inventor's signature:		Date:
Residence:	Palo Alto, California	
Post Office Address:	870 Loma Verde Avenu Palo Alto, CA 94303 U.S.A.	ue Country of Citizenship: U.S.A.

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#### COMBINED DECLARATION VER OF ATTORNEY

As a below named invent r, I hereby declare that:

•	
This declaration is of the following type:	COPY OF PAPERS ORIGINALLY FILED
[X] original [ ] divisional [ ] continuation [ ] continuation-in-part	-LI FILED
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A.	Prior fapplica	oreign/PC1 ation, and a	Fapplication(s) filed any priority claims un	1 within 12 mos. (6 adder 35 U.S.C. §119	mos. for design) prior to this	
	Coun	try/PCT	Application No	Date Filed	<b>Priority Claimed</b>	
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В.	All fore U.S. ap	eign application	ation(s), if any, filed r	more than 12 mos. (6 r	nos for design) prior to this	
	Country Applica Filing d	tion No:				
C.	U.S. Provisional Application filed within 12 months prior to this application					
	Serial I	No.		Filing Date		
	PRIORITY CLAIM (35 U.S.C. §120)					
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	Serial N Abando		ling Date	Patented	Pending	

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Douglas H. Elliott William B. Patterson	•

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rull name of sole or the	rst inventor: Mark M. Hytr	os
Inventor's signature:		Date:
Residence: Santa Clara, California		
Post Office Address:	592 Mill Creek Lane, #301 Santa Clara, CA 95054	
	U.S.A.	Country of Citizenship: U.S.A.

Full name of second in	ventor: Truc T. Tran	
Inventor's signature:		Date:
Residence:	Fremont, California	
Post Office Address:	45354 Rutherford Terrac Fremont, CA 94539 U.S.A.	Country of Citizenship: U.S.A.
Full name of third inve	ntor: Salvador P. Um	otoy
Inventor's signature:		Date:
Residence:	Antioch, California	
Post Office Address:	2801 Wildflower Drive Antioch, CA 94509 U.S.A.	Country of Citizenship: U.S.A.
Full name of fourth inv	entor: Lawrence Chun	g-Lai Lei
Inventor's signature:	<u></u>	Date:
Residence:	Milpitas, California	
Post Office Address:	1594 Country Club Drive Milpitas, CA 95035 U.S.A.	
Full name of <b>fifth</b> inven	tor: Avgerinos Gela	tos
Inventor's signature:		Date:
Residence:	Redwood City, California	1
Post Office Address:	2651 Eaton Avenue Redwood City, CA 940 U.S.A.	62 Country of Citizenship: U.S.A.
Full name of <b>sixth</b> inve	ntor: Tong Zhang	
Inventor's signature:	n gham	Date: 3/30/2002
Residence:	Palo Alto, California	<i>t</i> ,
Post Office Address:	870 Loma Verde Avenu Palo Alto, CA 94303 U.S.A.	e Country of Citizenship: U.S.A.

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Atty. Dkt. No.APPM/6551/CMI/TIC/LE



As a below named inventor, I hereby declare that:

herewith; or Express Mail No.(.

and was amended on \_

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filed on

As a select flatfled inventor, thereby desired that.	
This declaration is of the following type:	PIGINALLY FI
[X] original [ ] divisional [ ] continuation [ ] continuation-in-part	TLLY FIL
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SPECIFICATION IDENTIFICATION	
The specification of which:	
[ ] is attached hereto	

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was described and claimed in PCT International Application No.\_

and as amended under PCT Article 19 on \_\_\_\_\_

was filed on December 27, 2001, under Serial No. 10/033,544, executed on even date

(if applicable)

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	[x]	No such applications have been filed.				
	[]	Such appl	cations have been file	d as follows:		
A	Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to application, and any priority claims under 35 U.S.C. §119				mos. for design) prior to this	
	Coun	try/PCT	Application No	<b>Date Filed</b>	Priority Claimed	
					[ ] Yes [ ] No [ ] Yes [ ] No [ ] Yes [ ] No	
В.		eign applic oplication	ation(s), if any, filed	more than 12 mos. (6 n	nos for design) prior to this	
	Countr Applica Filing o	ation No:				
C.	U.S. P	rovisional a	Application filed with	in 12 months prior to t	his application	
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			PRIORITY	LAIM (35 U.S.C. §120)		
PCT in insofar applica acknow (namel importa	iternation as the stion(s) interpretation (s) interpretation de stien de st	nal applica: subject ma in the man the duty to mation whe	tion(s) designating the tter of each of the cla ner provided by the disclose information re there is substantia ther to allow the appl	e United States of Ame aims of this application if first paragraph of Title that is material to the likelihood that a reaso ication to issue as a pa	any United States application(s) or erica that is/are listed below and, is not disclosed in that/those prior 35, United States Code, §112, I e examination of this application nable Examiner would consider it tent) which occurred between the I filing date of this application.	
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Registration No. 34,682
Registration No. 32,008
Registration No. 32,982
Registration No. 34,102

### Send correspondence to:

## Direct telephone calls to:

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Full name of sole or fi	rst inventor: Mark M. Hytro	os
Inventor's signature:		Date:
Residence:	Santa Clara, California	
Post Office Address:	592 Mill Creek Lane, #301 Santa Clara, CA 95054 U.S.A.	. Country of Citizenship: U.S.A.

Full name of sec nd in	ventor: Truc T. Tran	
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Full name of third inve	ntor: Salvador P. Un	notoy
Inventor's		
signature:		Date:
Residence:	Antioch, California	
Post Office Address:	2801 Wildflower Drive Antioch, CA 94509 U.S.A.	Country of Citizenship: U.S.A.
Full name of <b>fourth</b> inv	entor: Lawrence Chu	ng-Lai Lei
Inventor's signature:		Date:
Residence:	Milpitas, California	
Post Office Address:	1594 Country Club Driv Milpitas, CA 95035 U.S.A.	re Country of Citizenship: U.S.A.
Full name of <b>fifth</b> inven	tor: Avgerinos Gela	atos
nventor's		D .
signature:	D-dused Oits Californ	Date:
Residence:	Redwood City, Californ	la e
Post Office Address:	2651 Eaton Avenue Redwood City, CA 940 U.S.A.	062 Country of Citizenship: U.S.A.
Full name of <b>sixth</b> inve	ntor: Tong Zhang	
nventor's signature:		Date:
Residence:	Palo Alto, California	
Post Office Address:	870 Loma Verde Aven Palo Alto, CA 94303 U.S.A.	ue Country of Citizenship: U.S.A.

E:Vorms/AppmtNew-Patent/Merge/DECLARE.MRG.doc



As a below named inventor, I hereby declare that:

filed on

This declaratio	n is of the following type:  Original
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	INVENTORSHIP IDENTIFICATION
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	SPECIFICATION IDENTIFICATION
The specification	on of which:
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Inventor's signature:		Date:
Residence:	Santa Clara, California	
Post Office Address:	592 Mill Creek Lane, #301 Santa Clara, CA 95054 U.S.A.	. Country of Citizenship: U.S.A.

Full name of second I	nventor: Iruc I. Iran	
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Residence:	Milpitas, California	
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Full name of <b>fifth</b> inver	ntor: Avgerinos Gelato	os
Inventor's		Date:
Residence:	Redwood City, California	
Post Office Address:	Redwood City, CA 9406	62 Country of Citizenship: U.S.A.
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I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any provisional or foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Ciaiiiie	J.						
	[x]	No such a	pplications have been	n filed.			
	[]	Such appl	ications have been fil	ed as follows:			
A.			Fapplication(s) file any priority claims u			or design) pri	ior to this
	Coun	try/PCT	Application No	Date File	<u>d</u>	Priority Clair	ned
						[ ] Yes [ ] [ ] Yes [ ] [ ] Yes [ ]	No
В.		eign application	ation(s), if any, filed	more than 12 mos	s. (6 mos for	design) prior	to this
	Country Applica Filing d	tion No:					
c.	U.S. Pr	ovisional A	Application filed with	nin 12 months pric	or to this app	lication	
	Serial I	No.		Filing Date			
			PRIORITY O	CLAIM (35 U.S.C. §	120)		
PCT in nsofar applicated acknow (namely mporta	ternation as the s tion(s) in pledge the print in de	nal applicati subject mat in the mann he duty to lation where ciding whet	under Title 35, United on(s) designating the ter of each of the classer provided by the disclose information there is substantial there to allow the application(s) and the nation	e United States of aims of this application first paragraph of a that is material I likelihood that a lication to issue as	f America than ation is not district 35, United to the examination to the examination of	t is/are listed sclosed in that ted States Co- nation of this xaminer would ich occurred b	below and, /those prior de, §112, I application consider it between the
	[x]		oplications have beer cations have been fil				
	Serial N Abando		ing Date	<u>Patented</u>	Status Pendir	<u>1q</u>	

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken	Registration No. 33,217
Michael B. Einschlag	Registration No. 29,301
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Michael L. Sherrard	Registration No. 28,041
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glen	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
Douglas H. Elliott	Registration No. 32,982
William B. Patterson	Registration No. 34,102

Send correspondence to:

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Patent Counsel Applied Materials, Inc. P.O. Box 450-A Santa Clara, CA 95052 B. Todd Patterson THOMASON, MOSER & PATTERSON, L.L.P.

713-623-4844

#### DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Hull name of sole or f	irst inventor: Mark M. Hytr	os
Inventor's signature:		Date:
Residence:	Santa Clara, California	
Post Office Address:	592 Mill Creek Lane, #301 Santa Clara, CA 95054	
	U.S.A.	Country of Citizenship: U.S.A.

Full name of second in	ventor: Truc T. Tran	
Inventor's		
signature:		Date:
Residence:	Fremont, California	
Post Office Address:	45354 Rutherford Terra Fremont, CA 94539 U.S.A.	Country of Citizenship: U.S.A.
Full name of third inver	ntor: Salvador P. Un	notoy
Inventor's signature:		Date:
Residence:	Antioch, California	Date
	, massin, Samornia	
Post Office Address:	2801 Wildflower Drive Antioch, CA 94509 U.S.A.	Country of Citizenship: U.S.A.
Full name of <b>fourth</b> inve	entor: Lawrence Chui	ng-Lai Lei
Inventor's signature:	ma Chrest	105 despate: 45/02
Residence:	Milpitas, California	5410.
Post Office Address:	1594 Country Club Driv Milpitas, CA 95035 U.S.A.	e Country of Citizenship: U.S.A.
Full name of fifth invent	or: Avgerinos Gela	tos
Inventor's		
signature:		Date:
Residence:	Redwood City, Californi	a
Post Office Address:	2651 Eaton Avenue Redwood City, CA 94062 U.S.A. Country of Citizenship: U.S.A.	
Full name of <b>sixth</b> inver	itor: Tong Zhang	
Inventor's signature:		Date:
Residence:	Palo Alto, California	outo
Post Office Address:	870 Loma Verde Avenu Palo Alto, CA 94303 U.S.A.	country of Citizenship: U.S.A.

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Atty. Dkt. No.APPM/6551/CMI/TIC/LE

# COMBINED DECEMPATION AND OWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

[X] original[] divisional[] continuation[] continuation-in-part



# INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DUAL-GAS DELIVERY SYSTEM FOR CHEMICAL VAPOR DEPOSITION PROCESSES

### SPECIFICATION IDENTIFICATION

The specification of v	whic	:h:
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[]	is attached hereto
[X]	was filed on December 27, 2001, under Serial No. 10/033,544, executed on even date
	herewith; or
	Express Mail No.( )
	and was amended on (if applicable)
[]	was described and claimed in PCT International Application No
filed on	and as amended under PCT Article 19 on

# ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

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No such applications have been filed.

[x]

	[] Such app	lications have been fil	ed as follows:	
A	Prior foreign/PC application, and	T application(s) file any priority claims u	d within 12 mos. (6 nder 35 U.S.C. §119	mos. for design) prior to this
	Country/PCT	Application No	Date Filed	Priority Claimed
				[ ] Yes [ ] No [ ] Yes [ ] No [ ] Yes [ ] No
В.	All foreign application	ation(s), if any, filed	more than 12 mos. (6	mos for design) prior to this
	Country: Application No: Filing date:			
C.	U.S. Provisional Application filed within 12 months prior to this application			this application
	Serial No.		Filing Date	
		PRIORITY C	LAIM (35 U.S.C. §120)	
PCT in insofar applica acknow (namel importa	iternational applicat as the subject ma tion(s) in the manipledge the duty to y, information wherent in deciding whe	ion(s) designating the tter of each of the cla ner provided by the disclose information e there is substantial ther to allow the appl	e United States of Amaims of this application first paragraph of Title that is material to the likelihood that a reason to issue as a paragraph.	any United States application(s) or serica that is/are listed below and, is not disclosed in that/those prior 35, United States Code, §112, I se examination of this application onable Examiner would consider it atent) which occurred between the al filing date of this application.
		pplications have beer ications have been file		
	Serial No. Fi Abandoned	ling Date	Patented	Status Pending

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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#### **DECLARATION**

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Full name of sole or fi	rst inventor: Mark M. Hytr	os
Inventor's signature:		Date:
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Post Office Address: 592 Mill Creek Lane, #301 Santa Clara, CA 95054 U.S.A.		. Country of Citizenship: U.S.A.

Full name of <b>second</b> inventor: Truc T. Tran		
Inventor's		
signature:		Date:
Residence:	Fremont, California	Date
	Tromornia	
Post Office Address:	45354 Rutherford Terri Fremont, CA 94539 U.S.A.	Country of Citizenship: U.S.A.
Full name of third inve	ntor: Salvador P. Ui	notoy
Inventor's		
signature:		Date:
Residence:	Antioch, California	
Post Office Address:	2801 Wildflower Drive Antioch, CA 94509 U.S.A.	Country of Citizenship: U.S.A.
Full name of fourth inv	entor: Lawrence Chu	ng-Lai Lei
Inventor's		
signature:		Date:
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Post Office Address:	1594 Country Club Driv Milpitas, CA 95035 U.S.A.	ve Country of Citizenship: U.S.A.
Full name of fifth inven	tor: Avgerinos Gela	atos
Inventor's signature:Residence:	Me La Und Redwood City, Californ	Date:4-74-6 ≥
Post Office Address:	2651 Eaton Avenue Redwood City, CA 94062 U.S.A. Country of Citizenship: U.S.A.	
Full name of sixth inver	ntor: Tong Zhang	
Inventor's		
signature:		Date:
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	U.S.A.	Country of Citizenship: U.S.A.